

ARU6510 Digital Audio Remote Unit

Remote

3D Audio

Intercom

Overview

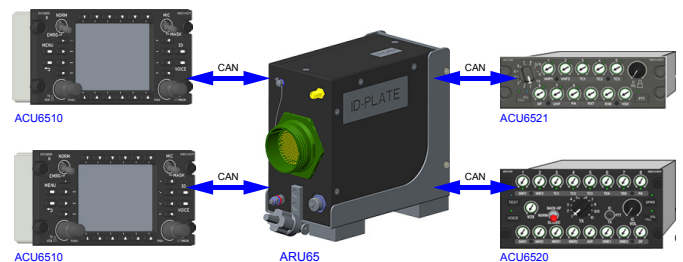
The Becker Avionics Audio Remote Unit (ARU) is a remote digital audio management unit, which was designed for rotary and fixed wing aircraft. A modular and centralized system design philosophy has been implemented to allow a maximum of flexibility and scalability.

Up to four Audio Control Units (ACU) can be connected per ARU. The system can be scaled up to three ARUs supporting 12 users.

The ARU is a audio management remote unit supporting control units with a display (e.g. ACU6510). It is an interactive approach to modern cockpit designs offering a big range of individual configurations. In addition, control units with classic rotary encoder HMIs will be supported.

The crystal clear communication is based on a 20 year experience in digital audio systems and the individually programmable soft keys and functions can be tailored to the mission and aircraft configuration.

By combining the display and system architecture, the ARU increases the possibilities of intercom and multicast functions. New functionalities like 3D audio improve the flight awareness significantly.

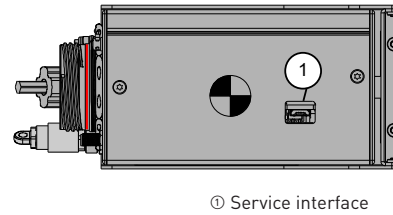
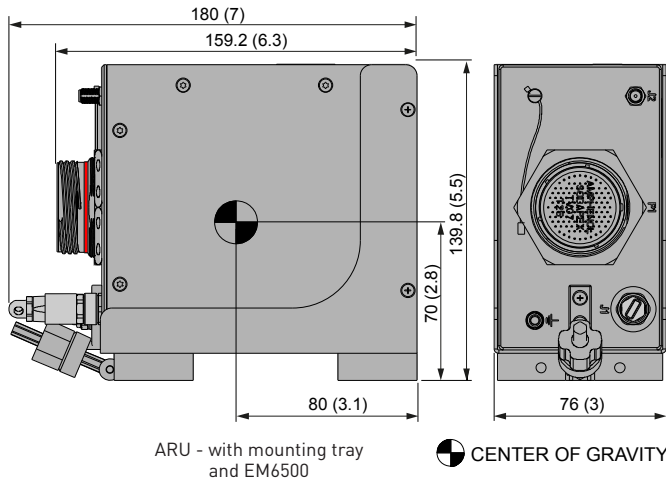


Features

- 4 transceiver in-/outputs
- 4 receiver inputs
- 3 FIX inputs
- 12 transceiver in a system with three AMUs
- 3 stereo headset user
- 3D audio
- Cockpit speaker
- Cockpit voice recorder
- Bluetooth® (stereo)
 - Music, phone calls, tactical radio, etc.
- ComReplay - internally stored messages for briefing or alert
- Simulcast, marker mute, VOX sensitivity and many more
- Emergency functionality
- Certified SelCal decoder (optional)
- Winchman operation (optional)
- Guard Radio (optional)
- Dynamic 3D (optional)
- Radio Management (optional)
- Split HMI (optional)
- Intercom Conference (optional)
- Easy device change thru replaceable external memory module for configuration
- Less weight
- Glass cockpit connectivity
- Up to 4 control units (ACU6510) can be connected to each ARU6510



Dimensions mm (inch)



ARU - with mounting tray and Bluetooth® antenna

Technical Data

| AMU6510 | Specification | | |
|---|---|---|------------------------|
| Nominal voltage | 28 VDC | | |
| Emergency voltage | 18 VDC | | |
| Nominal current consumption (one AMU) at 28 V | ≤ 1.1 A (Normal Mode) ≤ 0.3 A (Emergency Mode) | | |
| Audio input for transceivers, receivers, alerts | 1.2...15 V at 600 Ω (configurable via software) | | |
| Headphone amplifier | High Impedance | Low Impedance | |
| | Rated output power max. | 250 mW into rated load | 500 mW into rated load |
| | Output impedance | 2 Ω | 2 Ω |
| | Rated load | 300 Ω | 8 Ω |
| | Output type | Single ended | Single ended |
| Mike amplifier | Standard Mike | Dynamic Mike | |
| | Sensitivity/AGC starting point (if AGC on) | 100...1500 mV | 0.1...1.5 mV |
| | Input impedance (AC) | 150 Ω | 20 Ω |
| | Type | Amplified providing excitation voltage | Dynamic |
| Excitation voltage (w/o microphone) | 12 VDC | n.a. | |
| Speaker amplifier | 9 W | | |
| Service interface (USB) | USB 2.0 with Micro B connector | | |
| Forced cooling | No forced cooling required | | |
| Altitude | 50 000 ft | | |
| Operating temperature | -40...+55 °C | | |
| Storage temperature | -55...+85 °C | | |
| Short time high operating temperature | +70 °C | | |
| Dimensions HxWxD | without mounting tray: | 126.2 x 72 x 146.2 mm (5 x 2.8 x 5.7 in) | |
| | with mounting tray: | 139.8 x 76 x 179.6 (5.5 x 3 x 7 in) | |
| | depth with EM6500: | 180 mm (7 in) | |
| Weight | ARU65: | ≤ 1.062 kg (2.7 lb) | |
| | Mounting tray: | 0.338 kg (0.7 lb) | |
| Installation | Installation in avionic compartment (mounting tray MT6510) | | |
| Bluetooth® | HFP, A2DP and HSP protocols supporting cellphones and handheld radios | | |
| Certifications | ARU6510-(-)-(-) | ETSO-C139a, DO-214A, DO178C Level C, DO-254 Level C and DO-160G | |
| | SelCal | ETSO-C59b | |